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THE COMMISSIONER IS AUTHORIZED  
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ACCOUNT NO. 23-0975

JCO9 Rec'd PCT/PTO 26 SEP 2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :  
Yoshiki ICHIOKA et al. : Attn: BOX PCT  
Serial No. NEW : Docket No. 2001\_1462A  
Filed September 26, 2001 :

#3

METHOD FOR ULTRA-FAST  
CONVERSION OF TIME SIGNAL INTO  
TWO-DIMENSIONAL SPACE SIGNAL

[Corresponding to PCT/JP00/01816  
Filed March 24, 2000]

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents,  
Washington, DC 20231

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request  
consideration of [X] the references listed on attached form PTO-1449.

1a. [X] This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-  
entitled application, or

before the mailing date of the first Office Action on the merits,

and thus no certification and/or fee is required.

ATTACHMENT C

- 1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

- (1) ☐ the certification of paragraph 2 below is provided, **or**  
(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

- 1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

**the certification of paragraph 2 below is provided, and  
the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.**

2. It is hereby certified

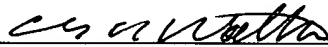
- a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or  
b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.

4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
- a. ☐ a full or partial English language translation submitted herewith,
  - b. ☐ a foreign patent office search report (in the English language) submitted herewith,
  - c. ☐ the concise explanation contained in the specification of the present application at page,
  - d. ☐ the concise explanation set forth in the attached English language abstract,
  - e. ☐ the concise explanation set forth below or on a separate sheet attached to the reference:
5. ☒ A foreign patent office search report citing one or more of the references is enclosed.

Respectfully submitted,

Yoshiki ICHIOKA et al.

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September 26, 2001

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)  
(Use several sheets if necessary)

Date Submitted to PTO: September 26, 2001

ATTY DOCKET NO.  
2001\_1462ASERIAL NO.  
NEWAPPLICANT  
Yoshiki ICHIOKA et al.FILING DATE  
September 26, 2001

GROUP

## U.S. PATENT DOCUMENTS

| *EXAMINER<br>INITIAL |    | DOCUMENT<br>NUMBER | DATE    | NAME | CLASS | SUBCLASS | FILING DATE IF<br>APPROPRIATE |
|----------------------|----|--------------------|---------|------|-------|----------|-------------------------------|
|                      | AA | 5,528,389          | 6/18/96 |      |       |          |                               |
|                      | AB |                    |         |      |       |          |                               |
|                      | AC |                    |         |      |       |          |                               |

## FOREIGN PATENT DOCUMENTS

|  |    | DOCUMENT<br>NUMBER | DATE    | COUNTRY | CLASS | SUBCLASS | TRANSLATION<br>YES NO |  |
|--|----|--------------------|---------|---------|-------|----------|-----------------------|--|
|  | AD | 11-46304           | 2/16/99 | JP      |       |          |                       |  |
|  | AE | 5-100256           | 4/23/93 | JP      |       |          |                       |  |
|  | AF | 5-72047            | 3/23/93 | JP      |       |          |                       |  |
|  | AG |                    |         |         |       |          |                       |  |
|  | AH |                    |         |         |       |          |                       |  |

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |    |  |
|--|----|--|
|  | AI | J. Opt. Soc. Am.A, Vol. 14, No. 5 (May 1997), P.C.Sun, Y.T. Mazurenko, Y. Fainman, "Femtosecond puls imaging: ultrafast optical oscilloscope", pp. 1159-1170   |
|  | AJ | PROCEEDING OF SPIE, Vol 3137 (July 1997), Photorefractive Fiber and Crystal Devices: Materials, Optical Properties, and Applications, Yoshiki Ichioka, Tsuyoshi Konishi, "Temporal-spatial optical information processing", pp. 222-227                          |
|  | AK | Extended Abstracts, No. 3 (March, 1998), 45th Meeting of Ouyou Butsuri Gakkai Kankei Rengou, T. Konishi, Y. Oka, Y. Ichioka, "Jikuu kan Hikari Jouhou Shori: II-1 Jigen Jikan Shingou - 2 Jigen Kuukan Shingou Henkan", p. 993, 30p-C-1                          |
|  | AM | Extended Abstracts, No. 3, 46th Meeting of Ouyou Butsuri Gakkai Kankei Rengou, (March 1999), T. Konishi, Y. Oka, Y. Ichioka, "Jikuu kan Hikari Jouhou Shori: VI-SHG Kesshou wo mochiita 1 Jigen Jikan Shingou - 2 Jigen Kuukan Shingou Henkan", p. 1073, 30p-V-1 |
|  | AN | Opt.Lett., Vol. 19, No. 9, (May 1, 1994, Martin C. Nuss, Melissa Li, T.H. Vhiu, "Time-to space mapping of femtosecond pulses", pp. 664-666   |
|  | AO |  |

EXAMINER

DATE CONSIDERED